

435 468
419
39

09/580,704

PATENT
Attorney Docket No. **DOW-04647**

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A plant infected with a modified plant virus comprising modified plant viral nucleic acid, said modified plant viral nucleic acid comprising a nucleotide sequence coding for a foreign peptide from an animal virus inserted in plant viral genomic nucleic acid that codes for an expressed portion of the plant viral coat protein, wherein said nucleotide sequence coding for a foreign peptide is inserted at a site such that there is no significant interference with the capacity of said modified plant virus to assemble.

2-3. (Cancelled)

4. (Currently Amended) The plant of Claim 3 1, wherein said nucleotide sequence coding for a foreign peptide is from Foot and Mouth disease virus.

5. (Currently Amended) The plant of Claim 3 1, wherein said nucleotide sequence coding for a foreign peptide is from human immune deficiency virus.

6. (Currently Amended) The plant of Claim 3 1, wherein said nucleotide sequence coding for a foreign peptide is from human rhinovirus.

7. (Currently Amended) The plant of Claim 1, wherein said modified plant virus is an RNA virus.

8. (Currently Amended) The plant of Claim 1, wherein said modified plant virus is a modified comovirus.

9. (Currently Amended) A method of producing modified plant virus particles, comprising:

- a) providing i) plant material selected from the group consisting of an intact plant, plant tissue, plant cells and protoplasts, ii) a plant virus

having a plant viral genome, and iii) a nucleotide sequence coding for a foreign peptide from an animal virus;

- b) introducing said nucleotide sequence coding for a foreign peptide at that part of said plant viral genome that codes for an expressed portion of the viral coat protein, so as to create modified viral nucleic acid;
- c) infecting said plant material with said modified viral nucleic acid, so as to create an infected plant material; and
- d) harvesting assembled plant virus particles from said infected plant material.

10-11. (Cancelled)

12. (Currently Amended) The plant of Claim ~~44~~ 2, wherein said nucleotide sequence coding for a foreign peptide is from Foot and Mouth disease virus.

13. (Currently Amended) The plant of Claim ~~44~~ 2, wherein said nucleotide sequence coding for a foreign peptide is from human immune deficiency virus.

14. (Currently Amended) The plant of Claim ~~44~~ 2, wherein said nucleotide sequence coding for a foreign peptide is from human rhinovirus.

15. (Currently Amended) The method of Claim 9, wherein said modified plant virus is an RNA virus.

16. (Currently Amended) The method of Claim 9, wherein said modified plant virus is a modified comovirus.